



Science

What the National Curriculum says...

| Key Stage 1 | Key Stage 2 |
|--|--|
| During years 1 and 2, pupils should be taught to use the following practical scientific methods, processes and skills through the teaching of the programme of study content: asking simple questions and recognising that they can be answered in different ways. observing closely, using simple equipment performing simple tests identifying and classifying using their observations and ideas to suggest answers to questions gathering and recording data to help in answering questions Programme of Study: Plants Animals, including humans Use of everyday materials Seasonal changes Living things and their habitats | During years 3 and 4, pupils should be taught to use the following practical scientific methods, processes and skills through the teaching of the programme of study content: asking relevant questions and using different types of scientific enquiries to answer them setting up simple practical enquiries, comparative and fair tests making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers gathering, recording, classifying and presenting data in a variety of ways to help in answering questions recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions identifying differences, similarities or changes related to simple scientific ideas and processes using straightforward scientific evidence to answer questions or to support their findings. |
| | During years 5 and 6, pupils should be taught to use the following practical scientific methods, processes and skills through the teaching of the programme of study content: planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs |





| using test results to make predictions to set up further comparative and fair tests reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and a degree of trust in results, in oral and written forms such as displays and other presentations identifying scientific evidence that has been used to support or refute ideas or arguments |
|---|
| Programme of Study: |
| Plants |
| Animals, including humans |
| Rocks |
| Light |
| Forces and magnets |
| Living things and their habitats |
| States of matter |
| Sound |
| Electricity |
| Properties and changes of materials |
| Earth and Space |
| Forces |
| Evolution and inheritance |

Every child at St Buryan is a scientist – we aim to for each and every child to fulfil our 'characteristics of scientists' to help achieve this. Our coverage is inspired by our Key Concepts, which indicate clear progression between classes and year groups as well as being held together by our over-arching concepts: Creativity, Confidence, Collaboration and Independence.

As well as using inspiring Scientists who celebrate diversity and equity, we aim to maximise our unique locality to enhance knowledge and understanding. Science is taught through our learning contexts when and where appropriate; however, should higher quality teaching and learning take place when taught explicitly, then learning may not be directly linked to a topic. High quality science teaching and learning allows children to understand more about the world around them; we aspire to deliver our teaching in an inspiring, practical way that allows children to develop their observation skills and follow their own lines of enquiry, using scientific evidence to come to answers.

We aspire to produce scientists who are proud of their outcomes and strive for the want of continuous development of skills and knowledge. Our key concepts ensure progression through the year groups, carefully designed to build knowledge and understanding. The selection of skills, coming from the National Curriculum as a starting point, ensure that learning is built on year-on-year.







Science in Nursery

Laying the early foundations for scientific enquiry falls under the 'Understand the World' area of the EYFS framework. Understanding the world involves guiding children to make sense of their physical world and their community.

The frequency and range of children's personal experiences increases their knowledge and sense of the world around them – from visiting parks, libraries and museums to meeting important members of society such as police officers, nurses and firefighters.

In addition, listening to a broad selection of stories, non-fiction, rhymes and poems will foster their understanding of our culturally, socially, technologically and ecologically diverse world.

As well as building important knowledge, this extends their familiarity with words that support understanding across domains. Enriching and widening children's vocabulary will support later reading comprehension.



St Buryan Academy Coverage and Progression – Concept Map



| J | Key Concept | EYFS/Year 1 | Year 2/3 | Year 4/5/6 |
|---|--------------|--------------------------|-----------------------------|-----------------------------|
| | | -I can name a variety of | -I notice that animals, | -I can recognise that there |
| | | common wild plants. | including humans have | needs to be light in order |
| _ | | | offspring which grow into | to see things and that |
| | | -I can name a variety of | adults. | darkness is the absence of |
| | (Ö) | common plants that we | | light |
| | | can eat. | -I can observe and | |
| | | | describe how seeds grow | -I can notice that light is |
| | Observations | -I can distinguish | into mature plants. | reflected from surfaces. |
| | | between an object and | | |
| | | the material from which | -I can recognise that there | -I can recognise that light |
| | | it is made. | needs to be light in order | from the Sun can be |
| | | | to see things and that | dangerous and that there |
| | | -I can observe and | darkness is the absence of | are ways to protect your |
| | | describe changes across | light | eyes and skin from the |
| | | the four seasons. | | Sun. |
| | | | -I can notice that light is | |
| | | -I can observe how day | reflected from surfaces. | -I know that shadows |
| | | length varies. | | take on the shape of the |
| | | | -I can recognise that light | opaque object. |
| | | -I can describe weather | from the Sun can be | |
| | | associated with the | dangerous and that there | -I can observe that some |
| | | seasons. | are ways to protect your | materials change state |
| | | | eyes and skin from the | when they are heated or |
| | | -I can observe and | Sun. | cooled. |
| | | describe changes across | | |
| | | the four seasons. | | -I can recognise common |
| | | | | conductors and insulators. |
| | | -I can observe how day | | |
| | | length varies. | | -I can recognise that light |
| | | | | appears to travel in |
| | | | | straight lines. |



St Buryan Academy Coverage and Progression - Concept Map



| -1 understand that plants: can grow-1 can construct a simple ford chain1 can explore how magnetic forces act at a distance1 can describe the physical properties of a variety of everyday materials1 can find out about and describe the basic needs of animals, including humans, for survival1 can predict whether two magnetic forces act at a distance1 can torestigations-1 can investigate the wrap in which water is1 can investigate the wrap in which water is1 can record my findings. using simple scientific vocabulary1 can explore the part that flowers play in the life cycle of flowering plants, including spatis, including seed formation and seed dispersal1 can explore the requirements of plants for light and growth1 can explore the shadow schange1 can explore the requirements of plants for light and growth1 can explore the shadow schange1 can explore the requirements of plants for light and growth1 can explore the shadow schange. | et Buiguit Readening eevelage an | a rogression concept n | <i>ν</i> μ | |
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| life and growth. shadows change. -I can investigate the -I can explore how | | | requirements of plants for | way that the length of |
| -I can investigate the -I can explore how | | | life and growth. | shadows change. |
| -I can investigate the -I can explore how | | | | |
| | | | -I can investigate the | -I can explore how |
| properties of different magnetic forces act at a | | | properties of different | magnetic forces act at a |
| materials. distance. | | | materials. | distance. |





| | -I can explore how | -I can predict whether |
|--|-----------------------------|---|
| | magnetic forces act at a | two magnets will attract |
| | distance. | or repel each other, |
| | | depending on which poles |
| | -I can predict whether | are facing. |
| | two magnets will attract | 3 3 |
| | or repel each other, | -I can compare how |
| | depending on which poles | different things move. |
| | are facing. | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| | , , | -I can compare how |
| | -I can predict where a | objects move on different |
| | shadow will form in | surfaces |
| | relation to an opaque | - |
| | object and a light source. | -I can recognise that |
| | | shadows are formed when |
| | -I can find patterns in the | light from a light source is |
| | way that the length of | blocked by an opaque |
| | shadows change. | object. |
| | | - |
| | | -I can associate the rate |
| | | of evaporation with |
| | | temperature. |
| | | |
| | | -I can investigate the |
| | | thermal insulation of |
| | | different materials. |
| | | |
| | | -I can predict how I could |
| | | separate mixtures. |
| | | |





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|-------------------------------|--|--|---|
| | | | -I can investigate switches. |
| | | | -I can recognise that vibrations from sounds travel through a medium to the ear. |
| | | | -I can find patterns between the pitch of a sound and features of the object that produced it. |
| | | | -I can find patterns between the volume of a sound and the strength of vibrations. |
| | | | -I can investigate variations in how components function. |
| Identify and classify | I can identify different plants. I can identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals. | -I can identify and name a variety of plants and animals in their habitats, including microhabitats. -I can identify and name a variety of plants and animals in their habitats. -I can identify that most living things live in c | I can explore and use classification keys to help group, identify and name a variety of living things in my local environment. I can recognise that living things can be grouped in a variety of ways. |
| | -I can identify and | uving things uve in a | |



St Buryan Academy Coverage and Progression – Concept Map





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| St Buryan Academy Coverage an | a Progression – Concept Mo | ιp | CREATIVITY CONFIDENCE COLLABORATION IN |
|-------------------------------|----------------------------|-----------------------------|--|
| | -I can describe the | -I can distinguish | -I can identify how |
| | physical properties of a | between an object and the | animals are adapted to |
| | variety of everyday | material it is made from. | their environment. |
| | materials. | | |
| | | -I can compare and group | -I can identify solids, |
| | -I can distinguish | together different kinds of | liquids and gases. |
| | between an object and | rocks on the basis of their | |
| | the material from which | appearance. | -I can identify the part |
| | it is made. | | played by evaporation |
| | | -I can compare and group | and condensation in the |
| | -I can compare and | together different kinds of | water cycle. |
| | group together a variety | rocks on the basis of their | |
| | of everyday materials on | physical properties. | -I can compare and group |
| | the basis of their simple | | materials according to |
| | physical properties. | -I can compare how | whether they are solids, |
| | | different things move. | liquids or gases and name |
| | | | their properties. |
| | | -I can compare how | |
| | | objects move on different | -I can compare and group |
| | | surfaces. | materials based on their |
| | | | response to magnets. |
| | | -I can compare and group | |
| | | various everyday | -I can identify common |
| | | materials based on | appliances that use |
| | | whether they are attracted | electricity. I can construct |
| | | to a magnet. | a simple circuit and name |
| | | | the parts of the circuit. |
| | | | T |
| | | | -1 can identify if a bulb |
| | | | will light up in a circuit. |
| | | | |





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|--|---|
| | -I can identify how |
| | sounds are made, |
| | associating some of them |
| | with something vibrating. |
| | -I can identify the effect of friction between moving surfaces. -I can identify the effect of air resistance. |
| | -I can identify the effect of water resistance. |
| | -I can explore and compare the differences between things that are living, dead, and things |
| Gather and record | that have never been -I can take accurate alive. measurements using thermometers. |
| | I can recognise that using simple scientific vocabulary, specifically within forces and magnets. -I can recognise that some mechanisms including levers, pulleys and gears allow a smaller force to have a greater |









| | -I can compare a | -I can describe the | -I understand what |
|---------|---|--|---|
| | variety of common | importance for humans to | producers, predators and |
| =1 | animals including | exercise. | prey are. |
| Present | fish, amphibians, reptiles, birds and mammals. | -I can describe the importance for humans to eat the right amounts of | -I can recognise that environments can change and that this can |
| | -I can compare humans. | different types of food. | sometimes pose dangers to living things. |
| | -I can sort a variety of plants. | -I can describe the importance for humans to have good hygiene. | -I can describe the human life cycle. |
| ence | -I can compare and group together a variety of everyday materials on the basis of their simple | -I can describe the importance for humans to look after themselves. | -I understand how a foetus develops in the womb. |
| | physical properties. | -I can explain the life | -I can describe what |
| | -I can describe weather | cycle of plants. | happens when I am a teenager. |
| | associated with the | -I know what plants need | 5 |
| | seasons. | to grow and stay healthy. | -I can describe what happens when I am a |
| | | -I understand that animals, including | senior. |
| | | humans, need the right | -I can discuss the seven |
| | | type of nutrition. | life processes. |
| | | -I can compare and group together different kinds of rocks on the basis of their | -I can explain how mammals |
| | | pingsinui piopeines. | |





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|--------------------------------|-----------------|-------------|------------------------------|---------------------------|
| | | | | -I can explain how |
| | | | -I can explain how some | animals |
| | | | rocks are formed. | |
| | | | - | -I understand |
| | | | -I can explain how the | reproduction in plants. |
| | | | Earth is made up of | |
| | | | different layers of rocks | -I can describe the |
| | | | and soils. | differences in the life |
| | | | | cycles of mammals, |
| | | | -I can describe how | amphibians, reptiles, |
| | | | fossils are formed when | insects and birds. |
| | | | things that have lived are | |
| | | | trapped within rock. | -I can explain the life |
| | | | | cycle of plants. |
| | | | -I can recognise that | |
| | | | shadows are formed when | -I can identify and name |
| | | | light from a light source is | the main parts of the |
| | | | blocked by an opaque | human circulatory |
| | | | object. | system. |
| | | | | |
| | | | -I know that shadows | -I can identify and name |
| | | | take on the shape of the | the main parts of the |
| | | | opaque object. | heart. |
| | | | | |
| | | | | -I can describe how water |
| | | | | and nutrients are |
| | | | | transported in humans. |
| | | | | |
| | | | | -I can identify how |
| | | | | humans can live a |
| | | | | healthy lifestyle. |
| | | | | |





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|-------|--------|--------------------------------|
| | | -I can explain natural |
| | | selection and how it may |
| | | lead to evolution. |
| | | |
| | | -I can explain how |
| | | adaptations may lead to |
| | | evolution |
| | | |
| | | -I can recognise that |
| | | living things produce |
| | | offspring of the same |
| | | kind, but normally |
| | | offspring vary and are not |
| | | identical to their name |
| | | inertitical to their pareries. |
| | | -I can recognise that |
| | | living things have |
| | | changed appretime and |
| | | that forsils provide |
| | | information about living |
| | | things that inhabited the |
| | | Earth millions of usars |
| | | Earth mutions of years |
| | | ago. |
| | | -I can describe the |
| | | nonarties of materials |
| | | using scientific |
| | | using sciency |
| | | vocubility. |
| | | -I knows that some |
| | | materials dissolve in a |
| | | liquid to make a solution |
| | | uquiu w make a solution. |





| | -I can explain why some changes are irreversible. | |
|--|--|--|
| | -I can explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and falling objects. | |
| | -I can use symbols when drawing a simple circuit diagram. | |
| | -I can associate the brightness of a lamp with the number and voltage of cells used in the circuit. -I can name renewable and non-renewable sources of energy. | |
| | -I can use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye. | |
| | -I can explain how the eye works. | |





| | | | -I can use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them. |
|------------------|---|---|---|
| | | | -I can explain how shadows change during the day. |
| Great scientists | -I can name scientists who were inspirational in the areas that I have studied | -I can name scientists who were inspirational in the areas that I have studied | -I can name scientists who were inspirational in the areas that I have studied |